

**Original Articles**

- 1 **Endoscopic Excision of Benign Tumors in the Forehead and Brow**  
*Twenty-five benign tumors of the forehead and brow were successfully excised with endoscopic-assisted surgery through an incision behind the hairline. No paresthesias or tumor recurrences were noted.*  
Sin-Daw Lin, MD  
Su-Shin Lee, MD  
Kao-Ping Chang, MD  
et al
- 5 **Bilateral, Extended V-Y Advancement Flap**  
*Ten patients underwent successful closure of sacral or trochanteric pressure ulcers with double V-Y advancement flaps modified by the addition of extension limbs onto the advancing edges. The modification eliminated midline tension and avoided a straight midline scar.*  
Mustafa Gürhan Ulusoy, MD  
İsmail Mthar Akan, MD  
Ömer Şensöz, MD  
Ragıp Özdemir, MD
- 9 **Innervated Dorsal Adipofascial Turnover Flap for Fingertip Amputations**  
*Eight digital amputations between the base of the nail matrix and the mid-middle phalanx were successfully closed with innervated dorsal adipofascial turnover flaps and hypothenar grafts. The flaps are locally accessible, sensate, functional, and aesthetically satisfactory.*  
Ragıp Özdemir  
Hıdır Kılınc  
Ömer Şensöz  
et al
- 15 **Operative Management of Neuromatous Knee Pain: Patient Selection and Outcome**  
*Twenty-five patients with intractable neuromatous knee pain underwent 62 selective neurectomies and burial of the nerve ends in muscle. Complete pain relief was achieved in 44% and partial relief in 40% over 1 to 4 years postoperative.*  
Maurice Y. Nahabedian, MD, FACS  
Carl A. Johnson, MD
- 23 **A Rationale for Adjuvant Surgical Intervention in Pyoderma Gangrenosum**  
*Four patients with large ulcers secondary to pyoderma gangrenosum were successfully treated with systemic steroids and skin grafting. A 6-month steroid tapering program was valuable in preventing early recurrence.*  
Imad L. Kaddoura, MD, FACS  
Christian Amm, MD
- 29 **Etiology and Pathogenesis of Aponeurotic Blepharoptosis**  
*A retrospective questionnaire study of 200 consecutive patients operated for acquired blepharoptosis disclosed a preoperative history of habitual rubbing of the eyelids in 182 and contact lens usage in 117. These seem to be causally associated with the surgical findings of disinsertion and attenuation of the levator aponeurosis.*  
Takeshi Fujiwara, MD  
Kiyoshi Matsuo, MD, PhD  
Shouji Kondoh, MD  
Shunsuke Yuzuriha, MD
- 36 **A Primary Burn Wound Does Not Slow the Contraction Rate of an Adjacent Excisional Wound**  
*In a 40% TBSA rat burn model, a separate excised wound underwent contraction at the same rate as control animals, confirming that a burn injury has no effect on the contraction of an adjacent wound.*  
Mark A. Carlson, MD  
Jureta W. Horton, PhD

# Case Reports

- |                            |  |   |
|----------------------------|--|---|
| 43                         | <b>Madelung's Disease: Case Report and Discussion of Treatment Options</b>   | Ciro Adamo, MD, PhD<br>Giuseppina Vescio, MD<br>Massimiliano Battaglia, MD<br>et al   |
| 46                         | <b>Infusion Port Dislodgment of Bilateral Breast Tissue Expanders After MRI</b>  | H. Daniel Zegzula, MD<br>W. P. Andrew Lee, MD   |
| 49                         | <b>Negative-Pressure Dressings in the Treatment of Hidradenitis Suppurativa</b>  | Eric T. Elwood, MD<br>D. Glynn Bolitho, MD, PhD                                       |
| 52                         | <b>Split Gluteus Maximus Island Flaps for Concomitant Closure of Ischial and Sacral Pressure Sores</b>                         | Ramesh Kumar Sharma, MCh(PlastSurg)   |
| 55                         | <b>Actinomycosis of the Frontal and Parotid Regions</b>  | Ismail Ermis, MD<br>Murat Topalan, MD<br>Atakan Aydin, MD<br>Metin Erer, MD           |
| 59                         | <b>Malignant Melanoma in a Burn Scar</b>   | Hermann K. Orlet, MD<br>Joseph Still, MD<br>Edward Law, MD<br>Charles Gertler, PA-C   |
| 62                         | <b>Infantile Myofibromatosis: Case Report of a Solitary Hand Lesion With Emphasis on Differential Diagnosis and Management</b> | David T. Netscher, MD<br>Firas Eladounmikhachi, MD<br>Edwina J. Popek, DO             |
| 68                         | <b>Posttraumatic Epidermal Inclusion Cyst of the Deep Infratemporal Fossa</b>  | Tahsin Oguz Acarturk, MD<br>Guy M. Stofman, MD, FACS                                  |
| <b>Special Article</b>     |  |   |
| 72                         | <b>Fires and Burns During Plastic Surgery</b>  | Robert K. Lowry, PA-C<br>R. Barrett Noone, MD   |
| <b>Tips and Techniques</b> |  |   |
| 77                         | <b>Modified Mandibulotomy Approach to Tumors of the Oropharynx</b>   | Gürçan Aslan, MD<br>Eksal Kargı, MD<br>Metin Gorgü, MD<br>et al                       |
| <b>Editorial</b>           |  |   |
| 80                         | <b>The Other Art-and-Science</b>   | William D. Morain, MD   |
| <b>Letters</b>             |  |   |
| 82                         | <b>Adrenal Incidentaloma as a Cause of Postoperative Exaggerated Ecchymosis</b>  | Selahattin Özmen, MD<br>Reha Yavuzer, MD<br>İker Yazıcı, MD<br>Osman Latfoğlu, MD     |
| 83                         | <b>Ulnar Tunnel Syndrome Secondary to Lipoma of the Hypothenar Region</b>  | Marianosaria Galeano, MD<br>Michele Colonna, MD<br>Giovanni Risitano, MD              |
| 84                         | <b>Bilateral Lower Extremity Thrombosis in a Patient With Protein S Deficiency</b>   | Ibrahim Vargel, MD<br>Emre Aksu, MD<br>Halil Ibrahim Canter, MD<br>Abdullah Keçik, MD |

- 86 **Use of Circular Subcutaneous Tissue Flaps to Prevent  
Fistulas in Urethroplasty**      Gürcan Aslan, MD  
Eksal Kargi, MD  
Bülent Erdogan, MD
- 87 **Split-Thickness Skin Graft Donor Site Dressing:  
Preliminary Results of a Controlled, Clinical  
Comparative Study of MEBO and Sofra-Tulle**      Bishara S. Atiyeh, MD, FACS  
Georges Ghanimeh, MD  
Imad L. Kaddoura, MD  
et al
- Book Review**
- 89 **The Good, the Bad, and the Homely: Essays by an Old-  
fashioned Country Plastic Surgeon**      William L. Hickerson, MD
- 90 **Announcements**

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Number 2 / February 2001

**Original Articles**

- 95 **Ultrastructural Anatomy of Contracted Capsules Around  
Textured Implants in Augmented Breasts**      Corrado Rubino, MD  
Vittorio Mazzarello, MD  
Francesco Farace, MD  
et al  
*A microscopic study of periprosthetic capsules around gel implants demonstrated a layered collagenous structure containing a thin vascular rete near the inner surface that probably plays the key role in capsule development. Implant texturing appears to alter the capsular architecture in ways that limit mechanical contraction.*
- 103 **Breast Reconstruction Using a Deepithelialized Rectus  
Abdominis Musculocutaneous Flap**      Ken-ichiro Kawai, MD  
Masakazu Fujikawa, MD  
Takeshi Masuoka, MD  
M. M. Al-Qattan, FRCSC  
et al  
*Eleven breast reconstructions were performed using chest wall pre-expansion followed by transfer of a deepithelialized TRAM flap. The technique obviates the color and texture mismatches seen with the TRAM skin paddle.*
- 108 **Lower Extremity Salvage Using a Free Flap Associated  
With the Ilizarov Method in Patients With Massive  
Combat Injuries**      Haluk Duman, MD  
Mustafa Sengezer, MD  
Bahattin Celikoz, MD  
et al  
*Nine massive combat injuries of the lower extremities were treated with a combination of free muscle transfer and Ilizarov bone transport of 8 cm to 16.5 cm. Full tibial union resulted in all cases, although two required a secondary flap procedure.*
- 113 **One-Stage Emergency Treatment of Open Grade IIIB  
Tibial Shaft Fractures With Bone Loss**      Y. Tropet, MP  
P. Garbuio, MP  
L. Obert, MD  
et al  
*Five grade IIIB open tibial shaft fractures with bone loss were treated emergently with primary one-stage management that included antibiotics, debridement, locked intramedullary nailing, iliac crest bone grafting, and free muscle transfer. All cases achieved full bone healing, with full weight-bearing beginning 5 months after injury.*

- 120     **Hand Elevation: A New Test for Carpal Tunnel Syndrome**  
*In 200 hands with carpal tunnel syndrome in 118 patients, a 2-minute hand elevation test demonstrated higher diagnostic sensitivity and specificity than either Tinel's or Phalen's tests.*  
Duck-Sun Ahn, MD, FRCS(C)
  
- 125     **Severe, Traumatic Soft-Tissue Loss in the Antecubital Fossa and Proximal Forearm Associated With Radial and/or Median Nerve Palsy: Nerve Recovery After Coverage With a Pedicled Latissimus Dorsi Muscle Flap**  
*Six pedicled latissimus muscle flaps were transferred to complex traumatic soft tissue defects of the antecubital fossa and proximal forearm with accompanying radial and/or median nerve palsies. All wounds healed, and all but one in-continuity nerve injury demonstrated motor recovery.*
  
- 130     **Triangular Mattress Suture in Abdominal Diastasis to Prevent Epigastric Bulging**  
*The large rectus diastases of 56 abdominoplasties were repaired with triangular mattress sutures, a method that avoids the characteristic epigastric bulge deformity.*  
Lydia Masako Ferreira, MD  
Helton Traber Castilho, MD  
Julio Hochberg, MD  
et al
  
- 135     **A New Surgical Treatment of Keloid: Keloid Core Excision**  
*Twenty-four keloids were treated by excising the core and closing the defect with a broad-based superficial flap from the keloid itself. Partial recurrence was noted in only 12.5% over a 6-month to 12-year follow-up.*  
Yoonho Lee, MD  
Kyung-Won Minn, MD  
Rong-Min Baek, MD  
Jin Joo Hong, MD
  
- 141     **Could Ionizing Radiation Forestall Cauliflower Ear?**  
*In a rabbit model, post-traumatic radiation of subperichondrial auricular hematoma resulted in a dose-related amelioration of subsequent fibrotic thickening.*  
Kun Hwang, MD, PhD  
Chung Woo Kim, MD  
Se Il Lee, MD, DMSc  
et al
  
- 146     **Dermal Fibroblasts Do Not Enhance the Graft Take Rate of Autologous, Cultured Keratinocyte Suspension on Full-thickness Wounds in Rats**  
*In a rat model, the take rate of cultured autologous keratinocytes in fibrin glue was not enhanced by the addition of allogenic dermal fibroblasts.*  
P. K. Lam, PhD  
E. S. Y. Chan, MD  
C. T. Liew, MD  
et al
  
- Case Reports**
- 150     **Botfly Myiasis: Case Report and Brief Review**  
Christian E. Sampson, MD  
James MaGuire, MD  
Elof Eriksson, MD
  
- 153     **Munchausen Syndrome**  
Serge de Fontaine, MD  
Jean Van Geertruyden, MD  
Xavier Preud'homme, MD  
Denis Goldschmidt, MD
  
- 159     **Life-Threatening Bleeding in a Facial Fracture**  
Wen-Guei Yang, MD  
Tzong-Ru Tsai, MD  
Chih-Cheng Hung, MD  
Tung-Chain Tung, MD

163	<b>Bilateral Breast Reconstruction With the Latissimus Dorsi Musculocutaneous Flap: The Importance of Patient Positioning</b>	Michael F. Chiaramonte, MD Maurice Y. Nahabedian, MD, FACS
167	<b>Replantation and Triple Expansion of a Three-Piece Total Scalp Avulsion: Six-Year Follow-Up</b>	Murat Topalan, MD Ismail Ermis, MD
170	<b>Hydatid Cyst in the Soft Tissue of the Face Without Any Primary</b>	Serdar Öztürk, MD Mustafa Devec, MD Şükrü Yıldırım, MD
174	<b>Calcific Myonecrosis: Case Report and Review</b>	Davinder S. Jassal, MD Merv Low, MD Lonny L. Ross, MD et al
178	<b>Nasal Angiocentric Lymphoma: An Entity That Should Be Remembered</b>	María Teresa Guerrero, MD Lázaro Cárdenas-Camarena, MD José Rodríguez-Carrillo, MD
183	<b>The Digital Pulp as a Presenting Site of Metastatic Esophageal Carcinoma</b>	Ram Silfen, MD Abraham Amir, MD Anna Tobar, MD Daniel J. Hauben, MD
	<b>Tips and Techniques</b>	
185	<b>Expanded Applications for Octyl-2-cyanoacrylate as a Tissue Adhesive</b>	Geoffrey G. Hallock, MD
	<b>Editorial</b>	
190	<b>A Cinderella Story</b>	William D. Morain, MD
	<b>Letters</b>	
191	<b>Re: Invited Discussion</b>	Daniel Remmler, MD, PhD Arlen Denny, MD Arun Gosain, MD
191	<b>Reply</b>	Bernard L. Markowitz, MD, FACS
191	<b>Reply: Increased Axonal Regeneration Through a Biodegradable Amnionic Tube Nerve Conduit</b>	Jamal Mohammad, MD, FRCS
191	<b>Re: Granular Cell Tumors in a Child's Finger</b>	M. M. Al-Qattan, FRCS
192	<b>The Legacy of Icarus in the 21<sup>st</sup> Century: Report of a Case of Aggressive Submental Basal Cell Carcinoma Resulting From Frequent Use of a Metallic Ultraviolet Reflector</b>	Beth A. Preminger, BA Mia Talmor, MD Michelle C. Specht, MD et al
193	<b>Reversed Skin Island Fascial Pedicle Flap of the Posterior Calf for Distal Defects of the Leg and Foot: An Alternative for Free Flap Transfer</b>	Hamdy A. El-Khatib, MD
194	<b>An Idea for Umbilicus Reconstruction</b>	F. M. Abenavoli, MD V. Cusano, MD V. Cucchiara, MD et al
195	<b>Subcutaneous Emphysema of the Eyelid and Orbital Cone After Maxillary Fracture</b>	Turgut Ortak, MD Ismail Mithat Akan, MD Ömer Şensöz, MD

- 195    **A Ganglionic Cyst in the Axilla**    Kao-Ping Chang, MD  
Sin-Daw Lin, MD  
Chung-Sheng Lai, MD  
et al
- 197    **Superficial Scalp Necrosis After Replantation**    Cuneyt Ozek, MD  
Ulvi Guner, MD  
Ufuk Bilkay, MD  
et al

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Number 3 / March 2001

**Original Articles**

- 205    **The Fullness of Who We Are**    M. J. Jurkiewicz, DDS, MD  
*The first annual lectureship of the Southeastern Society is delivered by its namesake.*
- 215    **The Fate of the Fibrous Capsule After Saline Implant Removal**    Harold I. Friedman, MD, PhD  
Andrew C. Friedman  
Kevin Carson, MD  
*In a rat model, removal of saline-filled implants resulted in contraction and dissipation of the periprosthetic capsules in association with a pericapsular vascular proliferation.*
- 222    **Results of Immediate Breast Reconstruction After Skin-Sparing Mastectomy**    Grant W. Carlson, MD  
Albert Losken, MD  
Bridgett Moore, MD  
et al  
*One hundred patients underwent 118 skin-sparing mastectomies and immediate reconstructions with TRAM flaps (82), latissimus flaps (18), or tissue expanders (20). The aesthetic results with the three methods were comparable, although the failure rate was higher with expanders (10%).*
- 229    **Reconstruction With the Latissimus Dorsi Flap After Skin-Sparing Mastectomy**    Jorge I. de la Torre, MD  
R. Jobe Fix, MD  
Paul M. Gardner, MD  
Luis O. Vasconez, MD  
*Eighteen women underwent skin-sparing mastectomy and reconstruction with a latissimus dorsi flap and saline-filled implant. Six minor complications required wound care, surgical revision, or seroma aspiration.*
- 234    **Skin-Sparing Mastectomy With Staged Tissue Expander Reconstruction Using a Silicone Gel Prosthesis and Contralateral Endoscopic Breast Augmentation**    William R. Burden, MD  
*Periareolar skin-sparing mastectomy with immediate submuscular expander reconstruction was performed on 24 women. Symmetry was achieved by contralateral reduction, mastopexy, or transaxillary endoscopic augmentation.*
- 238    **Endoscopic Breast Subpectoral Augmentation for Second-Degree Breast Ptosis**    William R. Burden, MD  
Patrick M. Kelley, MD  
*Twenty women with early second degree ptosis underwent endoscopic submuscular augmentation mastopexy via a 2.5 cm axillary crease incision. The pectoralis muscle was divided from the sixth rib to permit lowering of the intermaxillary fold.*

- 242 **Thoracic Reconstruction With the Omentum: Indications, Complications, and Results**  
*Sixty omental flap thoracic reconstructions (39 primary and 21 salvage) were performed with a mortality of 11.7%. Complications included 7 partial flap losses, 6 abdominal wound infections, and 7 epigastric hernias.*  
 C. Scott Hultman, MD  
 John H. Culbertson, MD  
 Glyn E. Jones, MD  
 et al
- 250 **The Vacuum-Assisted Closure Device as a Bridge to Sternal Wound Closure**  
*Subatmospheric pressure dressings (75-150 mm Hg) were used prior to muscle flaps in 16 sternotomy infections with ultimate healing in all but one. Advantages included favorable wound stabilization, improved ventilatory dynamics, and fewer dressing changes.*  
 Robert E. Hersh, MD  
 Jason M. Jack, MD  
 Mohammed I. Dahman, MB  
 et al
- 255 **Microsurgery in Private Practice: Is It Feasible Economically?**  
*A review of 350 free transfers by a private group of 3 plastic surgeons demonstrated diminishing reimbursement in the face of a level fee schedule. Microvascular practice in a private setting remains financially feasible despite substantial reductions in reimbursement for breast reconstruction.*  
 James W. Wade, MD, FACS  
 J. Anthony Stephens, MD  
 Roy F. Brabham, MD  
 Judith D. Carbo, CRNFA
- 261 **Comparison of Magnetic Resonance Angiography and Digital Subtraction Angiography for Visualization of Lower Extremity Arteries**  
*Magnetic resonance angiography was used for preoperative assessment in 5 patients undergoing free transfer in the lower extremities. In all cases the major vessels were accurately visualized to the ankle without the necessity of an invasive procedure.*  
 Bruce A. Mast, MD
- 265 **The Nasolabial Flap Revisited as an Adjunct to Floor-of-Mouth Reconstruction**  
*Six of thirty-nine floor-of-mouth free flap reconstructions developed wound complications that were salvaged with inferiorly based nasolabial flaps. Complete wound healing was achieved in all despite radiation therapy and facial artery ligation.*  
 Margaret Napolitano, MD  
 Bruce Allen Mast, MD
- 269 **Analysis of Nitric Oxide Activity in Prevention of Reperfusion Injury**  
*In an ischemia-reperfusion model using the pig rectus abdominis muscle, administration of L-arginine prior to reperfusion resulted in increased nitric oxide (NO) levels and decreased tissue damage. The presumed mechanism of action was the NO-mediated decrease of aggregation and adhesion of both platelets and neutrophils.*  
 James Emmett Lovett, III, MD  
 Betsy F. Fink, BS  
 Andrew Bernard, MD  
 Juan Ochoa, MD



- 275 **Reconstruction of the Submammary Crease for Correction of Postoperative Deformities in Aesthetic and Reconstructive Breast Surgery**  
*The submammary crease was repositioned in 200 breast cases by a technique of suturing the anterior breast capsule to the chest wall.*  
 Hamid Massiha, MD, FACS
- 279 **Offspring Health Risk After Cosmetic Breast Implantation in Sweden**  
*A retrospective cohort study of 5874 children born to women with cosmetic breast implants was compared to 13,274 children born to women having breast reduction surgery. There was no increased risk for rheumatic or esophageal disorders, cancer, congenital malformations, or perinatal death.*  
 Lisa B. Signorello, ScD  
 Jon P. Fryzek, PhD  
 William J. Blot, PhD  
 et al
- 287 **Clinical and Histopathological Analysis of Tissue Retraction in Tumescant Liposuction Assisted by External Ultrasound**  
*A comparative blinded study of 13 women undergoing tumescant abdominal liposuction demonstrated no difference in histology, aesthetics, or tissue retraction at 6 months regardless of whether or not external ultrasound was used. However, the greater inflammatory reaction seen at 2 weeks with ultrasound suggests that the thermal injury adds significantly to the surgical trauma.*  
 Lázaro Cárdenas-Camarena, MD  
 Alejandro Cárdenas, MD  
 Daniel Fajardo-Barajas, MD
- 293 **Guidelines for Standard Photography in Plastic Surgery**  
*A comprehensive summary of optimal techniques is presented for clinical photographs in plastic surgery.*  
 Reha Yavuzer, MD  
 Stefani Smirnes  
 Ian T. Jackson, MD
- 301 **Cross-Facial Nerve Grafting as an Adjunct to Hypoglossal–Facial Nerve Crossover in Reanimation of Early Facial Paralysis: Clinical and Electrophysiological Evaluation**  
*Two facial paralysis patients underwent cross-face nerve grafting and hypoglossal-facial neurotomy to the zygomatico-buccal branch, combined with temporalis muscle transfer to the eyelids. At a second stage the cross-face graft was connected to the same zygomatico-buccal branch, with favorable functional and EMG results.*  
 Levent Yoleri, MD  
 Ecmel Songür, MD  
 Hatice Mavioglu, MD  
 Özlem Yoleri, MD
- 308 **The Distally Based Island Superficial Sural Artery Flap: Clinical Experience With 36 Flaps**  
*Thirty-six distally based superficial sural artery flaps were transferred for distal third leg and foot defects with complete healing in all. There were 6 partial flap necroses, and all patients retained some sensibility in the lateral foot.*  
 António Costa-Ferreira, MD  
 Jorge Reis, MD  
 Carlos Pinho, MD  
 et al
- 314 **Improvement of Skin Paddle Survival by Application of Vascular Endothelial Growth Factor in a Rat TRAM Flap Model**  
*In a rat TRAM flap model, preoperative subcutaneous injection of VEGF into the skin paddle resulted in neovascularization and increased surviving area.*  
 Feng Zhang, MD, PhD  
 Kenneth Fischer, MD  
 Ewa Komorowska-Timek, MD  
 et al



- 320     **Pretreatment With Glycine Reduces the Severity of Warm Intestinal Ischemic–Reperfusion Injury in the Rat**  
*In a rat free jejunal transfer model, pre-infusion with 20% glycine resulted in favorable improvement in several indicators of ischemia-reperfusion injury.*  
  
Mark A. Lee, MB, BS  
Rosalee D. McCauley, PhD  
Sung-Eun Kong, PhD  
John C. Hall, DS
- 327     **An Anatomic Comparison of the Skin of Five Donor Sites for Dermal Fat Graft**  
*A histological study of several donor sites for dermal-fat grafts demonstrated superiority of the sacral area because of its greater dermal thickness and cellularity and its heavily collagenized panniculus.*  
  
Kun Hwang, MD, PhD  
Dae Joong Kim, PhD  
Ik Joon Lee, MD
- Case Reports**
- 332     **Treatment of Facial Angiofibromas of Tuberous Sclerosis by Shave Excision and Dermabrasion in a Dark-Skinned Patient**  
  
Kenneth Fischer, MD  
Brantley Blain, BS  
Feng Zhnag, MD, PhD  
et al
- 336     **Multiple-Component Tissue Reconstruction of a Complex Dorsal Foot Wound Through a Single Gracilis Muscle Donor Incision**  
  
E. Gene Deune, MD  
Anthony P. Turfaro, DDS, MD  
Paul N. Manson, MD
- Tips and Techniques**
- 340     **The W-W-Z Rhomboid Plasty for Closure of Excisional Wounds**  
  
Marcos Ardenghy, MD  
Julio Hochberg, MD  
Maria E. Ardenghy, MD  
et al
- Editorial**
- 343     **A Tangled Web**  
  
William D. Morain, MD
- Book Reviews**
- 345     **Plastic Surgery: Indications, Operations and Outcomes**  
  
Ronald B. Berggren, MD, FACS
- 346     **Craniofacial and Maxillofacial Surgery in Children and Young Adults**  
  
John W. Polley, MD
- 347     **Manual of Cutaneous Laser Techniques**  
  
W. Glenn Lyle, MD
- 348     **Lasers in Cutaneous and Cosmetic Surgery**  
  
Thomas Fiala, MD, FRCS
- Letters**
- 349     **Re: Hypospadias Repair: Collaboration Between Urologist and Plastic Surgeon**  
  
Isaac J. Peled, MD
- 349     **Re: Total Reconstruction of the Alar Cartilages With a Partially Split Septal Cartilage Graft**  
  
S. Anthony Wolfe, MD, FACS
- 349     **Re: A Modified Reversed Digital Island Flap Incorporating the Proper Digital Nerve**  
  
Roberto Adani, MD
- 349     **Potential for Danger With *Arnica montana***  
  
Stephen P. Daane, MD
- 350     **False Median Cleft: A Rare Facial Anomaly**  
  
Mithat Akan, MD  
Serkan Yıldırım, MD  
Gülden Avcı, MD  
Tayfun Aköz, MD

- 350 **Type I First Branchial Cleft Anomaly Resembling an Epidermal Cyst** Yavuz Demir, MD  
Seyhan Çenetoğlu, MD  
Nalan Akyürek, MD  
Reha Yavuzer, MD
- 351 **A Case With Accessory Digastric Muscles and Its Clinical Importance** Eser Yüksel, MD
- 352 **A-3 Pulley Trigger Finger** James W. Gaffield, MD  
Donald R. Mackay, MD
- 353 **An Infiltrating Intramuscular Lipoma of the Brachioradialis Muscle** Nezh Sungur, MD  
Hidir Kiliç, MD  
Ragip Özdemir, MD  
Ömer Şensöz, MD
- 354 **Other Uses of AlloDerm: Case Reports** F. M. Abenavoli, MD  
L. Giordano, MD
- 356 **Announcements**

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Number 4 / April 2001

**Original Articles**

- 357 **An Outcomes Analysis and Satisfaction Survey of 199 Consecutive Abdominoplasties** John M. Hensel, MD  
James A. Lehman, Jr, MD  
M. Prasad Tantri, MD  
et al  
*A retrospective review of 199 abdominoplasties showed 95% symptomatic improvement with an accompanying 43% revision rate and 32% complication rate (1.4% major complications). The rate of complications was positively associated with smoking, diabetes, and hypertension.*
- 364 **Oriental Double Eyelid: A Limited-Incision Technique** Sung Yurl Yang, MD  
*Seventy-six patients underwent an Oriental double-eyelid procedure in which orbital fat was excised and levator/tarsus fixation was achieved through a single 3-4 mm incision. All patients demonstrated satisfactory correction with the exception of two who required reoperation and five who demonstrated mild asymmetry.*
- 369 **Correction of the Bilateral Complete Cleft Lip: Transformation to a Unilateral Incomplete Cleft Lip Closure** Noriyoshi Sumiya, MD  
Yoshinori Ito, MD  
Kenta Otani, MD  
et al  
*Six patients with complete bilateral cleft lip and palate underwent two-stage lip repair in which the first stage comprised complete unilateral rotation-advancement closure with conversion of the contralateral side to an "incomplete" cleft. Six months later, the second side was symmetrically repaired and an open rhinoplasty performed.*

- 375 **Sciatic Nerve Reconstruction: Limb Preservation After Sarcoma Resection**  
*Six patients undergoing segmental resection of the sciatic nerve for malignancy were reconstructed with nerve autografts (5) or primary neurorrhaphy (1). Four of the five autograft patients recovered sensibility, and one gained 1/5 motor function; the primary neurorrhaphy patient gained both sensory function and plantar flexion (3/5).*  
 Marta Melendez, BS  
 Keith Brandt, MD  
 Gregory R. D. Evans, MD
- 382 **A Comparison Between Clinical Results and Electromyographic Analysis After Median or Ulnar Nerve Injuries in Children's Wrists**  
*Fourteen children with broken-glass wrist lacerations were evaluated clinically and electromyographically after epineural repair of the median or ulnar nerve. Although the sensory results were excellent and motor results fair to good, the EMG findings suggested very limited recovery.*  
 Franck Duteille, MD  
 Didier Petry, MD  
 Gilles Dautel, MD  
 Michel Merle, MD
- 387 **Mandibular Contour Reconstruction With Three-Dimensional Computer-Assisted Models**  
*Computer-assisted 3-D solid models of the mandible were used for designing scapular osteocutaneous flap reconstructions in seven patients. All flaps survived, and the aesthetic results were satisfactory.*  
 Koichi Ueda, MD  
 Sadao Tajima, MD  
 Sosuke Oba, MD  
 et al
- 394 **Pediatric Melanoma: Confirming the Diagnosis With Sentinel Node Biopsy**  
*Two pediatric pigmented lesions of questionable diagnosis were confirmed as melanoma when micrometastases were identified in sentinel nodes. In this situation SNB can have the additional advantages of (1) minimizing morbidity of node dissection and (2) determining the need for adjuvant therapy.*  
 Randall Zuckerman, MD  
 Joel P. Maier, MD  
 William B. Guiney, Jr, MD  
 et al
- 400 **Endoscopic Shaver With Liposuction for Treatment of Axillary Osmidrosis**  
*Axillary osmidrosis was treated in 64 patients using an endoscopic shaver/suction apparatus inserted through a 1-cm incision. Relief of malodor was good in 91% and fair in 6%.*  
 Tung-Chain Tung, MD
- 405 **Evaluation of a Combined Calcium Sodium Alginate and Bio-occlusive Membrane Dressing in the Management of Split-Thickness Skin Graft Donor Sites**  
*Donor sites of fifty-seven skin-grafted patients were dressed with calcium sodium alginate and a bio-occlusive dressing. Complete re-epithelization was achieved in 91% by seven days and the rest by ten days without hematoma, infection, or seroma.*  
 Joseph J. Disa, MD  
 Kaveh Alizadeh, MD  
 John W. Smith, MD  
 et al
- 409 **Which Dressing for Split-Thickness Skin Graft Donor Sites?**  
*Three groups of 20 skin-grafted patients each were compared according to type of donor site dressing. Closed dressings were superior to semi-open and open methods in rapidity of epithelization, comfort, and histological maturity.*  
 Hıdır Kılınc, MD  
 Ömer Şensöz, MD  
 Ragıp Özdemir, MD  
 et al

- 415     **Mental Development After Modified  $\pi$  Procedure:  
Dynamic Cranioplasty for Sagittal Synostosis**  
*Prospective developmental assessment was performed on 26 patients undergoing a modified pi-procedure (mean age 6.9 months) for sagittal synostosis. Despite the compressive AP shortening of the skull, there was no correlation between the amount of shortening and mental development.*  
  
Fredrik Gewalli, MD, DDS  
José Paulo da Silva Guimarães-Ferreira, MD  
Pelle Sahlin, MD, PhD  
et al
  
- 421     **"Pac Man" Flap for Closure of Pressure Sores**  
*Bilateral subcutaneous V-Y advancement flaps with interdigitating leading edges were used to close sacral or trochanteric pressure ulcers in 13 patients. All healed primarily and did not recur after limited follow-up.*  
  
İsmail Mithat Akan, MD  
Nezih Sungur, MD  
Ragıp Özdemir, MD  
et al
  
- 426     **Limited Use of Cyclosporin A in Skeletal Muscle Ischemia-Reperfusion Injury**  
*In a rat gracilis muscle model of ischemia-reperfusion injury, Cyclosporin A significantly increased muscle viability and decreased edema when administered pre-ischemically but not when administered peri-ischemically.*  
  
Arian Mowlavi, MD  
Ashkan Ghavami, BS  
Yao-Hua Song, MD PhD  
Michael Neumeister, MD
  
- Case Reports**
- 431     **Salvage of Avascular Bone From Frostbite With Free Tissue Transfer**  
  
Larry G. Leonard, MD  
Stephen P. Daane, MD  
Daniel S. Sellers, MD  
et al.
  
- 434     **Composite Grafting and Hyperbaric Oxygen Therapy in Pediatric Nasal Tip Reconstruction After Avulsive Dog-Bite Injury**  
  
Jay H. Rapley, BS  
W. Thomas Lawrence, MD  
Peter D. Witt, MD
  
- 439     **Microsurgical Ear Replantation Without Venous Repair: Failure of Development of Venous Channels Despite Patency of Arterial Anastomosis for 14 Days. With Invited Discussion by Matthew J. Concannon, MD**  
  
Mustafa Akyürek, MD  
Tunç Şafak, MD  
Abdullah Keçik, MD
  
- 444     **Reversed Dorsal Digital and Metacarpal Island Flaps Supplied by the Dorsal Cutaneous Branches of the Palmar Digital Artery**  
  
Daping Yang, MD  
Steven F. Morris, MD, FRCS(C)
  
- 450     **One-Stage Facial Augmentation With an Intraoral Groin Adipose Flap Transfer**  
  
Isao Koshima, MD  
Katsuyuki Urushibara, MD  
Kiichi Inagawa, MD  
Takahiko Moriguchi, MD
  
- Editorial**
- 454     **Bloopers 3**  
  
William D. Morain, MD
  
- Letters**
- 455     **Bends of the Breast: Is It Possible?**  
  
John L. Baeke, MD

455	<b>Cutaneous Anthrax of the Eyelid</b>	Mehmet Bekerecioglu, MD Mustafa Tercan, MD Bekir Atik, MD Onder Tan, MD
456	<b>Salvage of Flaps With Venous Congestion</b>	İsmail Mithat Akan, MD Serkan Yıldırım, MD Kaan Giderolu, MD
456	<b>Squamous Cell Carcinoma Affecting the Nose and Lower Lip</b>	Serkan Yıldırım, MD Mithat Akan, MD Tayfun Aköz, MD
457	<b>Dystrophic Calcinosis Cutis in a Patient With Squamous Cell Carcinoma Secondary to Postburn Scar</b>	Sam Yong Lee, MD, PhD Kwang Seog Kim, MD, PhD Dae Young Kim, MD, PhD Bek Hyun Cho, MD, PhD et al
458	<b>Going Back to Your Roots</b>	Paul J. Skoll, MD
	<b>Book Reviews</b>	
460	<b>The Art of Alloplastic Facial Contouring</b>	Peter D. Witt, MD
461	<b>Rhinoplasty: Dissection Manual</b>	Robert M. Oneal, MD
462	<b>Announcements</b>	

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Number 5 / May 2001

**Original Articles**

463	<b>The Use of DDAVP Desmopressin Reduces the Incidence of Microhematomas After Facioplasty</b>	David A. Palaia, MD Michael H. Rosenberg, MD Philip C. Bonanno, MD
	<i>A prospective study of 100 control-matched patients receiving intravenous DDAVP Desmopressin prior to facelift demonstrated a marked reduction in the number of small hematomas requiring treatment among those receiving the drug. Intraoperative hemostasis in male patients was especially aided by use of the agent.</i>	
467	<b>Experience With Transumbilical Breast Augmentation</b>	Laura Sudarsky, MD
	<i>A review of 70 evaluable patients after transumbilical breast augmentation demonstrated very good aesthetics in 80% of patients. There were four capsular contractures, five reoperations, one conversion to an open procedure, but no ruptures, hematomas, or infections.</i>	
474	<b>The Deep Inferior Epigastric Perforator Free Flap for Breast Reconstruction</b>	Alex Keller, MD
	<i>A review of 148 consecutive DIEP flap breast reconstructions (90.7% immediate) demonstrated successful results despite a single flap failure, 10 with fat necrosis, and two with incisional hernias.</i>	

- 481 Intercostal Neuromas: A Treatable Cause of Postoperative Breast Surgery Pain** Lesley Wong, MD  
*Five patients presenting with pain and a positive local Tinel's sign after breast surgery were all found to have transected intercostal nerves at exploration. The neuromas were excised under traction and allowed to retract. All patients experienced complete pain relief.*
- 485 Abdominoplasty With Procedural Sedation and Analgesia** Michael H. Rosenberg, MD  
David A. Palaia, MD  
Philip C. Bonanno, MD  
*One hundred six consecutive abdominoplasties, some with associated fascial plication or other ancillary procedures, were performed under tumescent local anesthesia and sedation. Complications were limited to a 5% seroma rate, and there were no anesthetic complications.*
- 488 Locally Recurrent Malignant Melanoma Characteristics and Outcomes: A Single-Institution Study** John K. Wildemore IV, BS  
Lynn Schuchter, MD  
Rosemarie Mick, MS  
et al  
*Local recurrences were identified in 2.2% of 1996 patients treated for melanoma. Positive correlates for local recurrence included lentigo maligna melanoma (37% of cases), greater primary tumor thickness, and presence of microsatellites at presentation.*
- 495 Ultraviolet-Assisted Punch Biopsy Mapping for Lentigo Maligna Melanoma** Thomas T. Jeneby, MD  
Benjamin Chang, MD  
Louis P. Bucky, MD  
*Twenty patients underwent multiple ultraviolet-assisted 2-mm punch biopsies to identify margins of lentigo maligna melanoma as a guide to subsequent excision. No recurrences were noted over a 6-month to 3-year follow-up.*
- 501 Utility of the Lateral Arm Flap in Head and Neck Reconstruction** Maurice Y. Nahabedian, MD, FACS  
E. Gene Deune, MD  
Paul N. Manson, MD, FACS  
*Four patients with oropharyngeal defects following tumor resection underwent immediate reconstruction with lateral arm flaps. Advantages over the radial forearm flap included better sensibility, variable thickness, and avoidance of a donor site skin graft.*
- 506 Improved Mandible Function After Hemimandibulectomy, Condylar Head Preservation, and Vascularized Fibular Reconstruction** Maurice Y. Nahabedian, MD, FACS  
Anthony Tufaro, MD, DDS  
Paul N. Manson, MD, FACS  
*Vascularized fibular reconstruction of the mandible was performed in two patients with in situ fixation of the fibula to the preserved condylar head. Since the condyle is rarely involved with tumor, the procedure is valuable in preserving TMJ function.*
- 511 A Preliminary Report of the Virtual Craniofacial Center: Development of Internet-/Intranet-Based Care Coordination of Pediatric Craniofacial Patients** Matthew D. Goodwin, BA  
Leo R. Otake, PhD  
John A. Persing, MD  
Joseph H. Shin, MD  
*A working, Internet-based 'Virtual Craniofacial Center' is presented, containing a patient database with text and digital photographs. It allows on-line consultation from remote sites.*



- 517 **Juvenile Gigantomastia: Presentation of Four Cases and Review of the Literature**  
*Four cases of juvenile gigantomastia were treated with combinations of Tamoxifen, reduction surgery, and subcutaneous mastectomy.*  
Stephen B. Baker, DDS, MD  
Brooke A. Burkey, BS  
Paul Thornton, MD  
Don LaRossa, MD
- 527 **Tissue-Engineered Cartilage Composite With Expanded Polytetrafluoroethylene Membrane**  
*Swine auricular chondrocytes were harvested, suspended in fibrin glue, apposed to expanded PTFE membrane (as neo-perichondrium), and implanted subcutaneously into nude mice. Tight bonding formed between neocartilage and PTFE, and flexibility approximated that of native cartilage.*  
Jian-Wei Xu, MD  
Jamal Nazzal, MD  
Giuseppe M. Peretti, MD  
et al
- 533 **A Biomechanical Analysis of an Engineered Cell-Scaffold Implant for Cartilage Repair**  
*Using a model of lamb articular cartilage implants in nude mice, it was determined that the addition of lyophilized cartilage chips to a fibrin glue-chondrocyte construct enhanced the stability of the construct.*  
Giuseppe M. Peretti, MD  
Mark A. Randolph, MAS  
Victor Zaporozhan, MD  
et al
- 538 **Synthetic Hybrid Grafts for Craniofacial Reconstruction: Sustained Gene Delivery Using a Calcium Phosphate Bone Mineral Substitute**  
*A synthetic calcium phosphate bone mineral substitute was transgenically implanted into a piglet frontal bone defect model via an adenoviral vector for sustained local gene delivery and expression.*  
Richard E. Kirschner, MD  
Jagajan Karmacharya, MD  
Grace Ong, BS  
et al
- 546 **Toward an Understanding of Nonsyndromic Craniosynostosis: Altered Patterns of TGF- $\beta$  Receptor and FGF Receptor Expression Induced by Intrauterine Head Constraint**  
*Using a mouse fetal head constraint model, a significant upregulation of TGF- $\beta$  receptors and FGFR2 was seen in the osteoblasts in dural cells and along osteogenic fronts. This suggests that these cytokines play a signaling role in non-syndromic craniosynostosis.*  
Oksana Hunenko, MD  
Jagajan Karmacharya, MD  
Grace Ong, BS  
Richard E. Kirschner, MD
- 555 **Treatment of Ischemic Wounds Using Cultured Dermal Fibroblasts Transduced Retrovirally With PDGF-B and VEGF121 Genes**  
*In a rabbit ischemic ear model, granulation tissue deposition was increased when the wounds were seeded with dermal fibroblasts that had been retrovirally transduced with human PDGF-B and human VegF121.*  
Arnold S. Breitbart, MD, FACS  
Daniel A. Grande, PhD  
Jordan Laser, BS  
et al
- Case Reports**
- 563 **Vaginal Reconstruction With a Rectus Abdominis Musculoperitoneal Flap**  
Zahid B. M.Niazi, MD  
Malik Kutty, MD  
Jane A. Petro, MD  
et al



**Editorial**

- 569    **The Seven Faces of Eve**    William D. Morain, MD

**Book Review**

- 571    **Plastic and Reconstructive Surgery of the Nose**    Julius W. Few, MD

**Letters**

- 572    **Lateral Calcaneal Artery Skin Flap**    Galip Ağaoğlu, MD  
Aycan Kayıkçıoğlu, MD  
Tunç Şafak, MD  
Abdullah Keçik, MD

- 573    **Long-Standing Seroma After Ultrasound-Assisted Liposuction**    Galip Ağaoğlu, MD  
Ö. Onur Erol, MD

- 575    **Announcements**

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Number 6 / June 2001

**Original Articles**

- 577    **Cryogen Spray Cooling and Pulsed Dye Laser Treatment of Cutaneous Hemangiomas**    Cheng-Jen Chang, MD  
Kristen M. Kelly, MD  
J. Stuart Nelson, MD, PhD

*A retrospective review of 164 pulsed-dye laser treatments of cutaneous hemangiomas demonstrated better volume and texture outcomes and fewer treatments when simultaneous cryogen spray was administered. The surface cooling protected the epidermis, permitting higher light dosages to be administered.*

- 584    **The Maximally Vascularized Central Pedicle Breast Reduction: Evolution of a Technique**    John H. Grant III, MD  
Richard P. Rand, MD

*A review of two sequential series of central-pedicle breast reductions disclosed a 50% reduction in complications, a 35% reduction in operating time, and improved aesthetic results when attention was directed to preoperative weight reduction and certain technical details.*

- 590    **Intraoperative Evaluation of Blood Flow in the Internal Mammary or Thoracodorsal Artery as a Recipient Vessel for a Free TRAM Flap**    Fulvio Lorenzetti, MD  
Hannu Kuokkanen, MD, PhD  
Karl von Smitten, MD, PhD  
Sirpa Asko-Seljavaara, MD, PhD

*In 25 TRAM flap breast reconstructions direct blood flow measurements were performed on the donor (deep inferior epigastric) and two recipient arteries. Despite greater baseline flow in the internal mammary than the thoracodorsal, the recipient flow was equivalent once the anastomoses were completed.*

- 594 **Continuous Quality Management of Breast Hypertrophy by the German Association of Plastic Surgeons: A Preliminary Report**  
*A quality assurance program of the German Association of Plastic Surgeons has assessed 799 patients undergoing breast reduction. Half of the patients were operated with the newer "vertical-only" scar technique, and overall complications were 21.5%.*  
 Henrik Menke, MD, PhD  
 Marita Eisenmann-Klein, MD  
 Rolf Rüdiger Olbrisch, MD, PhD  
 Klaus Exner, MD, PhD
- 601 **Thrombolytic Therapy: What Is Its Role in Free Flap Salvage?**  
*A retrospective review of 41 free flaps re-explored for anastomotic thrombosis demonstrated no difference in the rate of salvage whether or not thrombolytic agents were used at the time of re-exploration.*  
 Ni W. Yii, MA  
 Gregory R. D. Evans, MD, FACS  
 Michael J. Miller  
 et al
- 605 **Fingertip Replantation at or Distal to the Nail Base: Use of the Technique of Artery-Only Anastomosis**  
*Twenty-one fingertip amputations at or distal to the nail base were replanted with an artery-only technique, achieving venous drainage by an open fish-mouth incision or by leeching. Survival was 76%, with S2PD averaging 6.1 mm.*  
 Mustafa Akyürek, MD  
 Tunç Şafak, MD  
 Abdullah Keçik, MD
- 613 **Walk-through Injuries: Glass Door Facial Injuries**  
*Thirteen patients sustained facial soft tissue injuries, typically avulsed flaps, from walking through large, clear glass doors. Surgical results were better when the thin distal flap tips were excised rather than sutured back into place.*  
 Eyal Gur, MD  
 Yoav Barnea, MD  
 David Leshem, MD  
 et al
- 617 **Facilitated Tissue Expansion With Topical Estriol**  
*In a rat dorsal implantation model, immediate post-inflation intraluminal pressures were lower in animals treated daily with topical estriol or hyaluronidase. Estriol-treated skin demonstrated decreased breaking strength and increased collagen thickness after completion of expansion.*  
 Mustafa Tercan, MD  
 Yaşar Çokkeser, MD  
 İrfan Ozyazgan, MD  
 et al
- 621 **Using Lower Eyelid Fascial Slings for Recalcitrant Burn Ectropion**  
*Seven postburn lower lid ectropions were satisfactorily corrected by the use of lower lid temporalis fascial slings. A single late recurrence was treated with scar release and skin grafting.*  
 Jorge de la Torre, MD  
 Roger L. Simpson, MD  
 Mayer Tenenhaus, MD  
 Ian Bourhill, MD
- 625 **Lack of Correlation Between Objective and Subjective Evaluation of Residual Stigmata in Cleft Patients**  
*Fifty young adult cleft patients underwent facial anthropometric analysis and a personal self-assessment of facial appearance and need for corrective surgery. No correlation was found between the objective findings and the patients' subjective assessments.*  
 Florine Vegter, MD  
 J. Joris Hage, MD, PhD
- 630 **The Preputium: An Overlooked Skin Graft Donor Site**  
*Eleven boys, ages 5 to 11 years, underwent preputial skin grafting to various defects up to 4.8 x 6.5 cm in size. All grafts took completely, and two demonstrated mild hyperpigmentation at three months.*  
 Serkan Yildirim, MD  
 Mithat Akan, MD  
 Tayfun Aköz, MD  
 Betül Tanoğlu, MD

- 635 Prenatal Exposure to Nitrofen Induces Fryns Phenotype in Mice**  
*Timed-pregnant mice gavaged 25 mg of the herbicide nitrogen on day 8 of gestation developed the severe craniofacial defects of Fryns syndrome in 26% of cases. Generalized delay in chondrogenesis and osteogenesis was noted throughout the skeleton, along with reduction in the number of lumbar vertebrae.*  
 Juan M. Acosta, MD  
 Yang Chai, DDS  
 John G. Meara, MD, DMD
- Case Reports**
- 641 Successful Breast Reconstruction With a Perforator to the Deep Inferior Epigastric Perforator Flap**  
 Tommaso Guzzetti, MD  
 Alessandro Thione, MD
- 644 Two-Year Histological Outcome of Facial Lipofilling**  
 Dennis von Heimburg, MD  
 N. Pallua, MD
- 647 Ruptured Pseudoaneurysm Complicating an Infected Radial Artery Catheter: Case Report and Review of the Literature**  
 Parham A. Ganchi, MD, PhD  
 Bradon J. Wilhelmi, MD  
 Kenji Fujita, BS  
 W. P. Andrew Lee, MD
- 651 Harvesting the Abductor Digiti Minimi as a Muscle Plug With the Lateral Calcaneal Artery Skin Flap**  
 M. M. Al-Qattan, FRCS
- Guest Editorial**
- 654 Providing Patient Protections**  
 Greg Ganske, MD
- Letters**
- 655 Reliability of Secondary Inferior Pedicle (Pyramidal) Dermal Technique in Previously Reduced Gigantic Breasts**  
 Habib B. Al-Basti, FRCS  
 Hamdy A. El-Khatib, MD
- 656 Nasal Tip Metastasis of Pharyngeal Rhabdomyosarcoma**  
 Murat Türegün  
 Mehmet Bozkurt  
 Mustafa Şengezer  
 Yalçın Külahçı
- 657 Accessory Axillary Breast Tissue**  
 Azize Kılıç, MD  
 Ali Kılıç, MD  
 İlteris M. Emsen, MD
- 657 Epidermoid Carcinoma in Cutaneous Leishmaniasis Scar**  
 Eksal Kargı, MD  
 Emel Güngör, MD  
 Gürçan Aslan, MD  
 Bülent Erdogan, MD
- 658 Surgical Excision of Cutaneous Vascular Lesions After Percutaneous Injection of n-Butyl 2-Cyanoacrylate**  
 İbrahim Vargel, MD  
 M. Emin Mavili, MD  
 Halil İbrahim Canter, MD  
 et al
- 659 Intraosseous Zygomatic Hemangioma**  
 Alper Sari, MD  
 Reha Yavuzer, MD  
 Osman Latifoğlu, MD  
 M. Cemalettin Çelebi, MD

660	<b>Modified Tendon Stripper for Staged Tendon Grafting</b>	Naci Karaçal, MD Gürcan Aslan, MD Bülent Erdogan, MD
661	<b>Three Thenar Motor Branches of the Median Nerve</b>	W. Bradford Rockwell, MD Benjamin Stone, BA Mohammed Zakhireh, MD
662	<b>Measurement of Interincisal Distance in the Indian Population</b>	Vinita A. Puri Roshni E. Rana Kavita A. Agarwal et al
663	<b>A Case of Total Nasal Agenesis Accompanied by Tessier No. 30 Cleft</b>	Cuneyt Ozek, MD Hakan Gundogan, MD Ufuk Bilkay, MD et al
664	<b>Palmoplantar Keratoderma: Usefulness of a Surgical Procedure</b>	Marc Chaouat Philippe Levan Maurice Mimoun
665	<b>Xeroderma Pigmentosum With a Giant Cutaneous Horn</b>	Mithat Akan, MD Serkan Yıldırım, MD Gülden Avcı, MD Tayfun Aköz, MD
	<b>Book Reviews</b>	
667	<b>Somatosensory Testing and Rehabilitation</b>	Robert H. Kang, MD W. P. Andrew Lee, MD
668	<b>Announcements</b>	
	<b>Indexes to Volume 46</b>	
669	<b>Author Index</b>	
671	<b>Subject Index</b>	



